

DERWENT-ACC-NO: 1999-037026

DERWENT-WEEK: 200006

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TITLE: Multi-phase dispersion e.g. for use in cosmetics or dermatology - comprises continuous aqueous phase and dispersed lipid phases crosslinked by covalent network forming e.g. gels or elastomers

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PATENT-ASSIGNEE: BEIERSDORF AG[BEIE]

PRIORITY-DATA: 1997DE-1026131 (June 20, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 885914 A2	December 23, 1998	G	044	C08G 065/32
DE 19726131 A1	December 24, 1998	N/A	000	C08L 101/14

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU  
LV MC MK  
NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
EP 885914A2	N/A	1998EP-0109953	June 2, 1998
DE 19726131A1	N/A	1997DE-1026131	June 20, 1997

INT-CL (IPC): A61K007/00, A61K009/107, A61K009/51, C08G065/32,  
C08L067/02, C08L067/03, C08L101/14

ABSTRACTED-PUB-NO: EP 885914A

BASIC-ABSTRACT:

A dispersed multi-phase system (I) comprises: (a) a continuous aqueous phase; and (b) at least one dispersed liquid or solid lipid phase. The individual particles of phase (b) are linked together by a macromolecular network, obtained by reaction of one or more substances of formula (II) X-A-Y (II) A = hydrophilic molecular bridging region; and X, Y = reactive lipophilic regions via which molecules of (I) can undergo intramolecular reaction with each other. X and Y penetrate into and/or cover the outer surface of the particles of phase (b) and undergo intramolecular reaction under the action of heat and/or light.

USE - (I) include simple or multiple emulsions, O/W macro- or micro-emulsions, W/O/W-emulsions, hydro-dispersions, emulsifier-free oil-in-water preparations and dispersions of lipoidal solids. Polymer-containing micro-emulsions can be converted by phase inversion into microemulsion elastomers. (I)-based products include cosmetic or dermatological gels or sticks containing e.g. deodorants, antiperspirants, sun-screens, UV filters or lipophilic drugs (such as antihistamines, antiinflammatories, antibiotics, antimycotics, blood flow promoters, keratolytics, hormones, steroids or vitamins), micro-emulsion elastomers for use in chromatography, catalyst systems, contact lenses, implants, wound coverings, transdermal carrier systems, membranes and adhesives tapes and water-absorbent gels, films or foams for industrial or medical use.

ADVANTAGE - (I) can be prepared economically and reproducibly over a wide temperature range in a wide and controllable range of consistencies (e.g. flowable, rigid or elastomeric). (I) are prepared without the use of toxic radical initiators or irritative emulsifiers and may be obtained in transparent form. Cosmetic and dermatological compositions have good skin compatibility and, (due to the large number of very fine particles), provide high bioavailability of lipophilic active agents. Gels, films and foams may have an extremely high water uptake capacity e.g. hundreds of times the dry weight.

CHOSEN-DRAWING: Dwg.0/5

TITLE-TERMS: MULTI PHASE DISPERSE COSMETIC DERMATOLOGY  
COMPRIZE CONTINUOUS  
AQUEOUS PHASE DISPERSÈ LIPID PHASE CROSSLINK COVALENT  
NETWORK  
FORMING GEL ELASTOMER

DERWENT-CLASS: A96 B07 D21 D22

CPI-CODES: A12-V04C; B03-L; B04-B01B; B04-J01; B04-J02; B12-M03; B14-N17;  
B14-R03; D08-B; D09-C;

**CHEMICAL-CODES:**

Chemical Indexing M1 \*01\*

Fragmentation Code

M421 M423 M424 M431 M740 M782 M903 N103 Q254 Q261  
Q262 R022 V000 V300 V772 V795

Chemical Indexing M1 \*02\*

Fragmentation Code

G013 G100 J0 J011 J1 J131 K0 L6 L660 M280  
M311 M321 M342 M383 M391 M414 M423 M424 M431 M510  
M520 M531 M540 M740 M782 M903 M904 N103 Q254 Q261  
Q262 R022 V743

Markush Compounds

199904-CBL01-M 199904-CBL01-Q

Chemical Indexing M1 \*03\*

Fragmentation Code

H7 H721 J0 J012 J1 J172 M280 M316 M321 M333  
M342 M382 M391 M416 M423 M424 M431 M740 M782 M903  
M904 N103 Q254 Q261 Q262 R022 V743

Markush Compounds

199904-CBL02-M 199904-CBL02-Q

Chemical Indexing M1 \*04\*

Fragmentation Code

H4 H402 H482 H8 M280 M312 M321 M332 M342 M383  
M391 M416 M423 M424 M431 M620 M740 M782 M903 M904  
M910 N103 Q254 Q261 Q262 R022 V743

Specfic Compounds

00822M 00822Q

Registry Numbers

0822S 0822U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0822S; 0822U

**ENHANCED-POLYMER-INDEXING:**

Polymer Index [1.1]

018 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; H0124\*R  
; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34 ; P0055 ; H0000 ; M9999  
M2153\*R ; M9999 M2017 ; M9999 M2186 ; M9999 M2813 ; S9999 S1365

Polymer Index [1.2]

018 ; ND01 ; Q9999 Q9176 Q9165 ; Q9999 Q8060 ; Q9999 Q6633 ; Q9999  
Q8015 Q7987 ; B9999 B4488 B4466 ; B9999 B3407 B3383 B3372 ; K9416

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-011272